

Regional Council Workshop

Date: 24 April 2024

Time: 11.00am

Venue: Council Chamber

Hawke's Bay Regional Council

159 Dalton Street

NAPIER

Agenda

Item	Title	Page
1.	Welcome/Karakia/Apologies	
2.	Flood Resilience Strategy	3

Hawke's Bay Regional Council

Council Workshop

24 April 2024

Subject: Flood Resilience Strategy

Reason for report

- 1. This item provides an update on the Council's Flood Resilience Strategy by Asset Management Group Manager Chris Dolley.
- 2. A copy of the powerpoint presentation is attached for the Council's information, and will guide the workshop discussions.

Authored and Approved by:

Chris Dolley
Group Manager Asset Management

Attachment/s

1... Asset Management Strategy workshop presentation

Flood Resilience Strategy Session

24 April 2024



TE KAUNIHERA Ā-ROHE O TE MATAU-A-MĀUI

Flood Resilience – fine print

- ----
- Does not incorporate in today's discussion
 - Coastal Strategy
 - Water Security
 - Regional Parks



History of Key Decisions

2015 LTP

Consultation to upgrade Heretaunga Flood Control Scheme to 0.2 Annual Exceedance Probability Commitment to consult on Upper Tukituki Scheme in following years

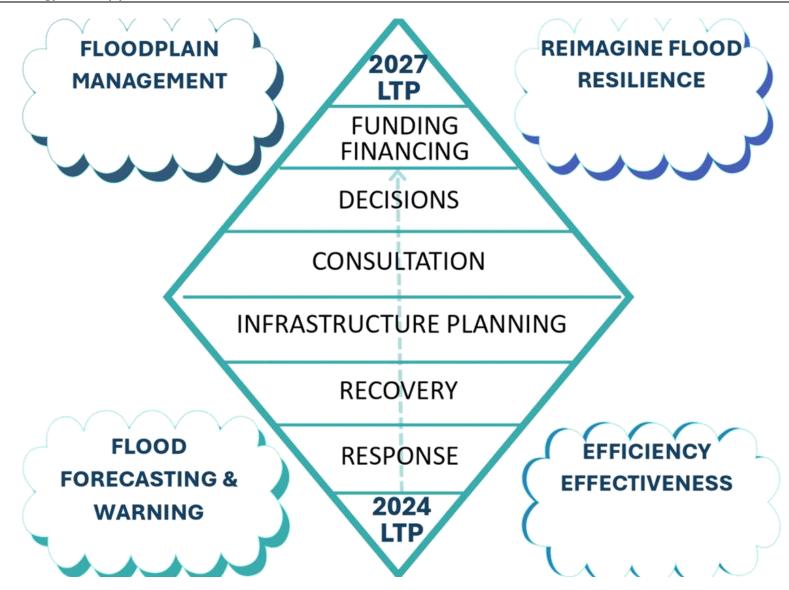
2018 LTP

Maintain BAU Benchmarking to prepare for 2021 LTP

2021 LTP

Covid 19- IRG Co-funding \$10.8m for \$30m programme
Transformational change to Asset Management systems and processes
SCADA and CCTV upgrades
Commitment to Scheme reviews for all Schemes
New flood forecasting tools







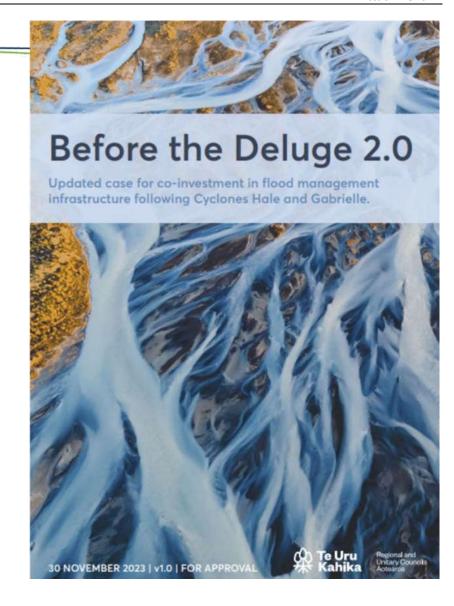
2024 Reimagine Flood Resilience

- Overdesign Event
 - Secondary flow paths
 - Detention of flood waters
 - Room for the river
 - Nature based solutions
- New and enhanced schemes through NIWE agreement
- Continue transformation of Asset Management
 - → IPMO to deliver \$270m+ programme over 4 years
 - Go Live Enterprise Asset Management System
 - Respond to internal and external reviews
 - System and process improvements aligned ISO 55000



Flood Resilience – step change for HBRC

- Heretaunga Plains Flood Control Scheme
- Upper Tukituki Flood Control Scheme
- IRG Program
- Before the Deluge Work Program
 - from 2028
- All Schemes Reviewed by 2026- fast tracked through NIWE agreement
 - Napier Urban Waterways- \$50m over 10 years



PARA Framework



Protect

Staying in place and building defences, eg, stopbanks and sea walls



Avoid

Staying away from areas where the risk is too high, eg, restricting or preventing development and making changes to existing land use



Retreat

Purposely moving away from areas where the risk is too high, eg, red zoning, placing restrictions on land use and relocating community assets

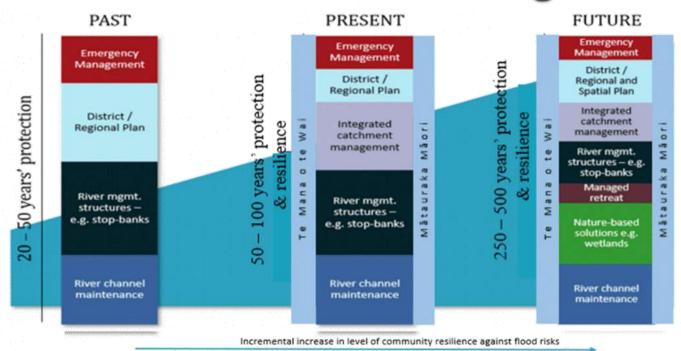


Accommodate

Staying in place and making changes to buildings and infrastructure, to improve resilience



Evolution of flood risk management



Regional councils apply an integrated / whole catchment / ecosystem sensitive approach to flood risk management. Resource management reform will provide additional opportunities - including the use spatial planning tools. Flood protection schemes will always be a critical component of flood risk management.

Status of Scheme Review

- Scheme Reviews Underway
 - Heretaunga Plains Flood Control
 - Upper Tukituki
 - Opoho

Asset Management Strategy workshop presentation

- Ohuia/Whakaki
- Wairoa Rivers and Streams/Nuhaka
- HPFC Karamu HPFC Raupare/Twyford*

- Scheme Reviews Completed
 - Napier / Meeanee
 - HPFC Brookfields / Awatoto
 - HPFC Pakowhai



Attachment 1

Status of Scheme Reviews

- Scheme Reviews to be undertaken
 - Upper Makara
 - Porangahau
 - Esk Whirinaki*
 - HPFC Haumoana / Te Awanga Maraetotara*
 - HPFC Muddy Creek
 - Paeroa
 - HPFC Puninga
 - Te Ngarue
 - Kairakau
 - Poukawa
 - Kopuawhara
 - Central and Southern
 - HPFC Tutaekuri Waimate / Moteo
 - *Two Schemes bundled together



IRG Variation

- Extension of time for next 12 months
 - Utilise \$2m to extend UTT gravel extraction scope
 - Geotech catalogue to support future work
 - Develop original projects to detailed design
 - Omaranui
 - Moteo
 - Clive River Frosion
 - East Clive
 - New Project recommission Maraenui Stopbank

Resilient River Communities

Resilient River Communities is a joint initiative between Kānoa - the Regional Economic Development & Investment Unit, regional councils, and local authorities focused on developing and upgrading vital river management and flood protection schemes in Aotearoa, New Zealand.

By having resilient river communities we hope to minimise environmental, economic, and social damage caused by flooding - making Aotearoa, New Zealand safer for everyone.

Built by





Projects Projects Map Careers News and Media

Flood Plain Management Plans

- New Flood Plain Management Plans
 - Avoid Risk
 - Reduce flood risk to people and property
 - Support resilient local economy and river scheme that is affordable and fairly funded
 - Work with district councils to coordinate long term planning outcomes
 - Recognise role of tangata whenua and their cultural values
 - Recognise environmental matters
 - Provide recreational activities
- Operational Management Plans- next stage





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Flood Forecasting and Warning

- New flood forecasting models
 - Work commenced 2021 now complete
 - Automated runs 1 hr 24/7
- Working with Sector (NZ) common tools and platforms
 - Metservice & NEMA
 - Standard interface- useful for non technical staff
- Improved interface with community



HBRC Providing Value

- - - -
- Harmonising Napier Urban Waterways
 - Two organisations providing different parts of the same network
 - Determined in 1989
- Consider Divest Scheme and Assets e.g.
 - Small Schemes
 - Ohuia
 - Opoho
 - Small Forests
 - Mahia
 - Waipawa
 - Waipukurau



Questions

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